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Research Document 2008/014 | **Document de recherche 2008/014**

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A review of Newfoundland and Labrador snow crab (*Chionoecetes opilio*) fishery performance–1979-2005

Examen du rendement de la pêche au crabe des neiges (*Chionoecetes opilio*) à Terre-Neuve et au Labrador – 1979-2005

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ISSN 1499-3848 (Printed / Imprimé)
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ABSTRACT

The Newfoundland and Labrador snow crab (*Chionoecetes opilio*) fishery began in the late 1960's. Initially, landings were recovered as gillnet bycatch but soon were predominately from a directed baited trap fishery. Fishing activitity expanded rapidly during the 1990's resulting in peak landings of 69,000 t in 1999. A chronological overview of milestones, both regulatory and fishery expansion in nature, which highlight the development of the industry are outlined. In addition, Newfoundland and Labrador Snow Crab Management Area performance as reflected by yearly summaries of landings, effort, catch per unit of effort (CPUE) and quota is presented for the period 1979–2005.

RÉSUMÉ

La pêche au crabe des neiges (*Chionoecetes opilio*) à Terre-Neuve et au Labrador a débuté vers la fin des années 1960. Au commencement, les débarquements étaient des prises accessoires provenant des filets maillants mais, en peu de temps, ils sont devenus en grande partie le résultat d'une pêche dirigée au casier appâté. La pêche a connu une expansion rapide pendant les années 1990, les débarquements culminant à 69 000 t en 1999. Le présent document donne une vue d'ensemble des principales étapes franchies, tant sur le plan de la réglementation que sur celui de l'expansion de la pêche, mettant en relief le développement de l'industrie. Il décrit aussi le rendement dans la région de gestion du crabe des neiges de Terre-Neuve et du Labrador, tel que l'indiquent les sommaires annuels des débarquements, de l'effort, des prises par unité d'effort (PUE) et des quotas pour la période allant de 1979 à 2005.

INTRODUCTION

The Newfoundland and Labrador snow crab (*Chionoecetes opilio*) fishery began in Trinity Bay in the late 1960's. Initially, the catch consisted solely of crabs caught as groundfish gillnet bycatch but within several years there was a directed trap fishery in most inshore areas along the northeast coast of the Island. After this initial areal expansion, the fishery remained relatively stable until the early 1980's when the collapse of the Alaskan king crab fishery triggered a rapid expansion of the fishery both in terms of effort and landings but also in terms of fishing grounds. During this time the fishery was prosecuted by approximately 50 vessels which were restricted to using 800 traps each. In 1981 Zonal Management was introduced which essentially restricted vessels to fishing exclusively the NAFO Division where licence holders resided.

The mid 1980's represent a turning point for the fishery with a depletion of the crab resource in most traditionally fished areas of NAFO Div. 3K and 3L (Taylor et al. 1993) and the commencement of fisheries in 2J and 3Ps. In 1985 supplementary fisheries prosecuted by enterprises needing to supplement their income from a failing groundfish fishery were started in 3K and 3Ps. Vessels prosecuting this fishery were restricted to 150 traps and fished the same grounds as the fulltime vessels. A supplementary fishery in 3L commenced in 1987 with the same regulatory regime as the others.

In 1987 quota management was initiated in all areas of 3L accompanied by a redefinition of fishing seasons for both fleet sectors. Quota management was initiated in 3K in 1988. Depending on the management area, fishing by supplementary vessels was restricted to specified seasons in the spring or fall or, in some cases, the quota was split between a fall and a spring season. With the introduction of quota management, areas were redefined and quotas allocated to individual management areas by fleet sector. There is no biological basis for the current definition of management areas but rather, they are an attempt to allocate effort proportionally to resource availability. This strategy is an attempt to prevent over-exploitation of near-shore areas. In 1989 fulltime vessels were restricted to offshore fishing grounds, and bays, (except Bonavista Bay), were reserved for the supplementary fleet.

The fishery in Labrador began in 1985 and expanded significantly in 1991 with the commencement of fishing activity north of 53:30 latitude. This fishery, centered in Cartwright, is fished exclusively by supplementary vessels and they, like their southern Labrador counterparts, are permitted to fish 300 traps.

In 1994 there were several important changes in the snow crab fishery. In 3K, a dockside monitoring program run by fishers was instituted with a great deal of success. Access to the fishery for supplementary vessels was expanded in 1994. There were now 3 fleet sectors; fulltime, supplementary larger than 40 gross tons in weight and supplementary less than 40 gross tons in weight but having an overall length greater than 35 ft. All three fleet components had designated trap limits, quotas and fishing areas. In order to avoid "gluts" trip limits and/or weekly harvest limits were introduced.

In 1995 dockside monitoring was extended to all NAFO Divisions thereby providing reasonable assurance that data on vessel landings was accurate. Monitors were required to initial fishers logbook entries in order to validate them. Also in 1995, an additional fleet of fishers gained access to the snow crab resource (DFO 1999). Vessels under 35 ft. LOA were issued temporary seasonal permits and permitted access to the fishery. Three

hundred and sixty (360) permits were issued with an allocation of 1800 t and each bay was allocated a quota and number of permits reflective of resource availability. Where too many fishers applied for the number of permits available, a draw system was implemented. Fishing grounds in all NAFO Divisions were extended offshore (outside of 200 n. miles in NAFO Div. 3LNO).

The 1996 Newfoundland and Labrador snow crab fishery expanded in several ways from the level of activity experienced in 1995. Landings increased to 37,967 t (quota 34,864 t), a 17% increase over 1995 landings (32,334 t). Areally, several new fishing areas were occupied in 1996 with excellent results overall in terms of catch rates and quality. Many new participants fished snow crab for the first time as additional temporary permits were issued to fishers using vessels under 35 ft. LOA. Enterprise allocations have been adopted by almost all fleet sectors, either partially (3Ps supplementary) or in full (2J, 3K and 3LNO fulltime). In 1996 there were over 2600 enterprises licensed to participate in the snow crab fishery.

The 1996 fishery saw the introduction of a two-tiered pricing structure for snow crab, as well as the implementation of enterprise allocations,(EA's) for almost every harvesting sector. These changes, in tandem with trip limits and weekly catch limits, resulted in a much more regulated and directed fishery than in past years. The two-tiered pricing system was designed to encourage fishers to harvest selectively, crab in excess of 101 mm (4 inches) carapace width (CW). This new pricing structure may have contributed to increased discard mortality in that observers reported that fishers were retaining legal-sized crab under 102 mm CW until they had caught their assigned trip limit of crabs over 101 mm CW. Then, unwanted legal-sized crabs were returned to the water after up to several hours on board the vessel undoubtedly increasing the frequency of discard mortality. The absence of a competitive fishery with the introduction of individual quotas allowed fishers to take their time and high-grade large crab but at a cost of increased discard mortality.

In 1997 there was a protracted price dispute between the fishers and processors. This resulted in a significant delay in opening the fishery. A further difficulty of ensuring a timely opening was the issue of how to continue the system of two-tiered pricing without exacerbating the negative effects in term of discard mortality experienced during high-grading by the fleet in 1996. Processors stated that the only way to have a financially viable fishery in 1997 was the maintenance of a two-tiered pricing structure. Analysis of data provided by fishery officers and at-sea observers indicated that the potential discard mortality resulting from high-grading practices was alarmingly high in some areas. Resource Management Branch insisted that unless provisions were made to minimize high-grading and attendent discard mortality there would be no 1997 commercial fishery that included a two-tiered pricing policy. In mid-July, a compromise was reached which allowed for a two-tiered pricing system but disallowed deliberately culling legal-sized under 102 mm CW crabs from the catch. An agreement to this effect was signed by processing and harvesting representatives and the fishery opened, albeit at a much later date than normal. In an effort to reduce discard mortality processors agreed that they would pay the "premium" price to fishers provided that they landed no less than 80% large crab.

The fishery continued to expand in terms of licences, landings and areas fished. The number of licences/permits issued for the Newfoundland and Labrador region in 1997 increased to 3087, up from 2624 in 1996. The number of licences increased in all NAFO Divisions with the exception of 2J where a disappointing 1996 season for the under 35 ft.

temporary permit component of the fleet apparently caused a reduction in licence applications for the 1997 fishery. Landings increased to 45,726 t (quota 42,015t), an increase of 20.4% over 1996. The fishery expanded modestly in 1997 with exploratory fisheries attempting to determine the northern extent of commercial fishing grounds in Labrador (2J) and whether fishing was feasible at depths greater than 550 m. on the continental slope of NAFO Div. 3K. In both areas special quotas were assigned in order to induce vessels to explore for crabs.

In 1998, the two-tiered pricing system based on crab size remained in place. However, due to an agreement reached between processors and harvesters a 20% tolerence for crab under 102 mm was considered acceptable before the differential price regime kicked in. It appears that this system worked quite well and the problems experienced in recent years in terms of high-grading and attendent discard mortality were largely avoided.

In 1999 inshore area snow crab resources became almost entirely dedicated to the <35 ft. temporary seasonal fleet sector. For the most part small supplementary vessels were relocated offshore to "nearshore" areas, and their inshore allocations divided among temporary seasonal enterprises. An unforseen consequence of this management initiative was the loss of logbook data to the assessment process. Informatics and Statistics Branch do not routinely process logs from the temporary seasonal fleet component of the fishery and were thus unable to provide Science Branch with data necessary for CPUE calculations for that year. Offshore, there was a significant expansion of the exploratory fishery in Div. 3LNO outside 200 n. mi. with an overall quota of approximately 6,000 t which was augmented by an additional 2000 t in the fall.

Results from the 1999 Fall Multispecies Survey employing a Campelen shrimp trawl indicated that the snow crab resource in NAFO Div. 2J, 3K and 3L was sharply reduced over 1998 levels (Dawe et al. 2000). This information in conjunction with commercial fishery catch rate data which indicated that in 2J and 3K CPUE's declined at a much steeper rate than in previous years led to a sharp quota reduction in these areas. Catch rate data for 3L and 3NO did not support the findings of the trawl survey, but in exercising a precautionary approach quotas for these areas were reduced by a lesser amount.

The 2000 fishery resulted in commercial landings of 55,658 t a decrease of 19.3%. This decline was primarily due to decreases in TAC's.

In 2001 the overall quota was increased slightly in some offshore areas as a result of exploratory fishery incentives. While CPUE remained stable at relatively high levels in NAFO Div. 3L and in most areas of 3K CPUE's declined sharply in Div. 2J and in most areas of 3Ps. In several areas of 3K and 3Ps severe problems were encountered with with high prevalences of soft-shelled crab. In Fortune Bay the problem was so severe that the fishery was closed prematurely.

In 2002 most areas of Div. 3L experienced CPUE's comparable to those of 2002, while in 2J and 3Ps CPUE's continued to decline dramatically. Observer reports indicated that in 2J and 3K soft-shell prevalence was extremely high and that in some instances handling practices were poor. Anecdotal evidence from 3Ps indicated that soft-shell prevalence was problematic as well, particularly in areas of Fortune Bay where the fishery was again closed before the TAC was caught.

A highlight of 2003 was the conversion of approximately 2700 "Temporary Seasonal" permits into full-fledged "Inshore" licences. The 2003 fishery in Labrador was plagued with extremely low catch rates as well as a high prevalence of soft-shelled crabs. The high abundance of these recently molted crabs, combined with the fact that many fishers handled them in an attempt to select marketable, crabs led to concerns over discard mortality and the impact on subsequent short-term recruitment prospects. While catch rates declined only slightly in the 3K offshore area there was a high prevalence of soft-shelled crabs there as well. In all inshore areas except 1 (3D, Fig. 1), catch rates remained comparable to 2002 values or increased slightly. Offshore areas of 3L experienced catch rates comparable to those of recent years while many inshore areas experienced reduced catch rates. Sub-division 3Ps experienced a sharp decline in commercial catch rates both inshore and offshore. In addition to apparent low resource availability fishing activities were hampered by a high pervalence of soft-shelled crab in many areas.

High soft-shell prevelance continued to be a problem for the industry in 2004, particularly in Div. 2J-3K. In July the problem became so severe that the offshore fishing grounds in Divi. 3K closed well before the quota had been harvested. A "test fishery" was initiated in the fall to determine if crab quality had improved to acceptable levels. Processing tests resulted in a continuation of the fishery in the fall. However, while soft shell crab were not encountered during this period, most crab harvested were new shell and produced low meat yield.

In 2005 quotas were lowered in 2J and 3K in response to lower commercial availability, and the season was set to close earlier in order to avoid high levels of soft-shell. Despite these precautionary measures soft-shell prevalence became so high in 3K that the fishery was closed in July and remained closed for the rest of the year resulting in a failure to harvest the quota in the offshore area (Area 4) of this Division.

The tables following this summary represent a chronological index of the snow crab fishery and fishery performance in terms of landings, effort and CPUE in individual Snow Crab Management Areas (SMAs) (Fig. 1), starting in Labrador and proceeding around the coast of Newfoundland in a clockwise direction.

Information used in compiling the data summaries within these tables were extracted from the mandatory logbooks that fishers are required to maintain and submit on a regular basis. Over time, there have been changes to area boundaries, trap mesh size, and fishing practices which undoubtedly affected catch rates for each management area. However, for the purpose of an overview of long-term fishing performance, these tables provide valuable information for individuals involved in the fishery including fishers, processors and resource managers in assessing relative fishery performance on a yearly basis.

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Table 1. Summary of Newfoundland and Labrador NAFO Division quota, catch and effort data 1979-2005.

Year	2+U			3K			3L			3NO			3Ps			4R3Pn			Total		
	Quota	Catch	Effort	Quota	Catch	Effort	Quota	Catch	Effort	Quota	Catch	Effort	Quota	Catch	Effort	Quota	Catch	Effort	Quota	Catch	Effort
	(t)	(t)	('000)	(t)	(t)	('000)	(t)	(t)	('000)	(t)	(t)	('000)	(t)	(t)	('000)	(t)	(t)	('000)	(t)	(t)	('000)
1979					788	79		10,326	700											11,114	779
1980					628	58		8,684	554											9,312	612
1981					1,303	110		12,855	851					38	3					14,196	964
1982					2,443	294		11,041	717					14	9					13,498	1,020
1983					4,898	612		6,211	627					43	3					11,152	1,242
1984					5,031	606		4,524	707					175	19					9,730	1,332
1985		332	25		4,001	690		2,638	507		7			705	110		291			7,974	1,332
1986	925	468	38	4,000	4,277	1,069	3,300	3,506	480				600	584	167		133		8,825	8,968	1,754
1987	925	232	26	4,000	2,678	724	2,800	3,133	352				600	587	196		50		8,325	6,680	1,298
1988	926	456	51	2,560	2,681	570	4,450	5,319	626		327		600	723	134		82		8,526	9,588	1,381
1989	920	483	40	2,350	2,346	419	6,000	4,423	614		531		700	528	96		15		9,970	8,326	1,169
1990	920	602	47	4,380	4,309	399	6,800	5,394	719		78		700	597	124		46		12,800	11,026	1,289
1991	1,420	1,003	68	7,650	8,353	674	5,900	6,430	804		19		700	309	67		48		15,670	16,162	1,613
1992	1,420	1,494	121	6,650	7,543	634	5,900	6,992	568				500	170	17		238		14,470	16,437	1,340
1993	2,300	2,267	191	8,575	10,463	722	7,175	9,074	677		148		500	829	75		141	29	18,550	22,922	1,694
1994	2,900	2,971	330	9,800	10,724	794	10,100	11,944	786		106		850	1,538	104		634	112	23,650	27,917	2,126
1995	3,050	3,189	394	11,450	12,326	1,019	11,660	14,007	829		14	1	1,725	1,929	158		869	146	27,875	32,334	2,547
1996	2,800	3,102	327	12,950	14,210	1,280	14,775	16,416	1,124		427	33	3,050	2,974	177	1,289	838	181	34,864	37,967	3,122
1997	2,800	3,183	287	14,300	14,796	1,396	18,925	20,691	1,478		1,454	99	4,600	4,675	287	1,390	927	150	42,015	45,726	3,697
1998	3,500	4,098	277	15,740	16,839	1,358	19,975	23,289	1,465		730	40	6,000	6,624	399	1,310	1,060	252	46,525	52,640	3,791
1999	4,655	5,428	402	18,192	21,386	2,139	26,375	26,220	1,629	3,250	6,506	338	7,969	7,905	510	1,330	1,597	326	61,761	69,042	5,344
2000	3,411	3,673	304	13,493	15,390	1,710	22,710	22,600	1,222	2,425	4,173	216	7,700	7,887	569	1,430	1,627	332	51,169	55,350	4,343
2001	3,340	3,738	425	13,693	15,288	1,544	23,656	23,469	1,357	2,425	4,697	240	7,600	7,839	519	1,539	1,683	374	52,252	56,714	4,459
2002	3,381	3,521	577	15,378	16,352	1,619	26,448	25,013	1,583	2,425	5,023	246	7,600	7,637	764	1,749	1,851	294	56,981	59,397	5,083
2003	2,265	2,532	575	15,608	16,502	1,737	27,807	26,046	1,915	2,670	5,592	294	6,085	6,113	826	1,895	1,562	284	56,330	58,347	5,631
2004	1,780	1,925	535	15,593	16,460	2,318	27,288	25,746	2,110	2,670	5,283	344	4,395	4,720	738	1,864	1,462	332	53,590	55,596	6,377
2005	1,425	1,581	298	12,860	8,685	1,379	27,078	24,909	2,042	2,670	4,740	335	4,100	3,169	587	1,845	862	192	49,978	43,946	4,833

Table 2. Area 2J - Labrador.

Year	Total landings (t)	Total effort ('000's)	CPUE kg/trap)	Quota (t)
1985	332	21.8	15.2	-
1986	468	39.7	11.8	925
1987	256	30.1	8.5	925
1988	451	48.5	9.3	926
1989	523	43.2	12.1	920
1990	645	50.0	12.9	920
1991	989	67.3	14.7	1420
1992	1529	124.3	12.3	1420
1993	2315	194.5	11.9	2300
1994	2978	330.9	9.0	2900
1995	3178	441.4	7.2	3050
1996	2738	333.9	8.2	2800
1997	2739	249.0	11.0	2800
1998	3279	202.4	16.2	2900
1999	4257	299.8	14.2	3855
2000	2888	227.4	12.7	2890
2001	2862	311.1	9.2	2890
2002	2795	443.7	6.3	2890
2003	1782	379.1	4.7	1735
2004	1309	374.0	3.5	1510
2005	1165	215.7	5.4	1209

Table 3. Area 2JX – Exploratory.

Year	Total landings (t)	Total effort ('000's)	CPUE kg/trap)	Quota (t)
1995	11	1.2	9.4	-
1996	352	30.6	11.5	-
1997	420	36.8	11.4	-
1998	377	27.9	13.5	-
1999	519	39.6	13.1	-
2000	384	34.0	11.3	-
2001	305	41.2	7.4	-
2002	248	52.8	4.7	-
2003	416	122.4	3.4	-
2004	304	84.4	3.6	-
2005	209	45.4	4.6	-

Division 2GHJ

Table 4. Area 2GHJ - Torngat (North of 54°40').

Year	Total landings (t)	Total effort ('000's)	CPUE kg/trap)	Quota (t)
1997	90	7.4	12.2	100
1998	442	42.5	10.4	500
1999	600	50.4	11.9	600
2000	446	37.8	11.8	450
2001	478	56.9	8.4	450
2002	438	60.0	7.3	450
2003	273	65.0	4.2	450
2004	269	65.6	4.3	270
2005	175	32.4	5.4	216

Table 5. Area 2GHJX - Torngat (exploratory).

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1999	72	6.2	11.6	-
2000	53	7.7	6.9	-
2001	108	9.7	11.1	-
2002	41	7.2	5.7	-
2003	60	13.3	4.5	-
2004	37	10.0	3.7	-
2005	28	4.2	6.6	-

Division 3K

Table 6. Area 3A - Canada Bay.

Year	Total landings (t)	Total effort ('000s)	CPUE (kg/trap)	Quota (t)
1988	34	-	-	50
1989	17	3.3	5.2	50
1990	-	-	-	50
1991	91	10.7	8.5	50
1992	82	8.2	10.0	50
1993	104	10.2	10.2	75
1994	112	20.4	5.5	100
1995	136	38.9	3.5	150
1996	140	27.5	5.1	200
1997	237	38.9	6.1	250
1998	201	41.0	4.9	350
1999	382	69.5	5.5	350
2000	243	21.3	11.4	265
2001	248	31.8	7.8	265
2002	317	32.0	9.9	295
2003	367	47.7	7.7	350
2004	384	45.2	8.5	350
2005	351	45.6	7.7	350

Table 7. Area 3B - White Bay.

Year	Total landings (t)	Total effort ('000s)	CPUE (kg/trap)	Quota (t)
1979	297	33.0	9.0	-
1980	254	24.7	10.3	-
1981	552	39.1	14.1	-
1982	1153	84.2	13.7	-
1983	2474	240.2	10.3	-
1984	3048	354.4	8.6	-
1985	1336	262.0	5.1	-
1986	1353	397.9	3.4	-
1987	418	154.8	2.7	300
1988	387	184.3	2.1	750
1989	206	93.6	2.2	200
1990	182	45.5	4.0	150
1991	-	-	7.3	200
1992	209	26.5	7.9	200
1993	377	44.9	8.4	300
1994	476	58.8	8.1	400
1995	408	48.0	8.5	400
1996	667	69.5	9.6	700
1997	937	128.4	7.3	900
1998	889	112.5	7.9	800
1999	611	179.7	3.4	625
2000	359	123.8	2.9	435
2001	364	72.8	5.0	435
2002	188	18.8	10.0	200
2003	350	28.9	12.1	375
2004	462	28.5	16.2	460
2005	601	51.8	11.6	560

Table 8. Area 3C - Green Bay.

Year	Total landings (t)	Total effort ('000s)	CPUE (kg/trap)	Quota (t)
1979	491	46.3	10.6	-
1980	374	37.8	9.9	-
1981	711	59.7	11.9	-
1982	1352	13.0	10.4	-
1983	537	88.0	6.1	-
1984	502	76.1	6.6	-
1985	476	80.7	5.9	-
1986	938	246.8	3.8	-
1987	303	112.2	2.7	400
1988	255	127.5	2.0	400
1989	243	63.9	3.8	200
1990	260	41.3	6.3	280
1991	407	52.2	7.8	400
1992	416	47.8	8.7	400
1993	606	60.6	10.0	500
1994	611	67.1	9.1	600
1995	689	71.8	9.6	750
1996	984	175.7	5.6	1000
1997	634	158.5	4.0	750
1998	460	90.2	5.1	450
1999	877	250.6	3.5	700
2000	645	222.4	2.9	450
2001	652	90.6	7.2	450
2002	721	79.2	9.1	600
2003	775	84.2	9.2	750
2004	812	123.0	6.6	780
2005	676	140.8	4.8	750

Table 9. Area 3D - Fogo-Twillingate.

Year	Total landings (t)	Total effort ('000s)	CPUE (kg/trap)	Quota (t)
1983	1857	191.4	9.7	-
1984	1463	164.4	8.9	-
1985	1063	141.7	7.5	-
1986	895	165.7	5.4	-
1987	424	83.1	5.1	300
1988	800	163.3	4.9	300
1989	410	71.9	5.7	400
1990	709	84.4	8.4	600
1991	1593	160.9	9.9	1300
1992	1183	112.7	10.5	1200
1993	1297	108.1	12.0	1200
1994	1169	110.3	10.6	1200
1995	1419	163.1	8.7	1400
1996	1476	234.3	6.3	1550
1997	1314	222.7	5.9	1550
1998	1231	251.2	4.9	1440
1999	1711	397.9	4.3	1567
2000	1258	209.7	6.0	1125
2001	1496	139.8	10.7	1325
2002	1894	242.8	7.8	1850
2003	1850	303.3	6.1	1700
2004	1605	373.3	4.3	1530
2005	967	261.4	3.7	1225

Table 10. Area 4 - Offshore.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1984	67	11.0	6.1	-
1985	225	40.2	5.6	-
1986	772	108.7	7.1	-
1987	594	108.0	5.5	1500
1988	1123	184.1	6.1	1900
1989	1534	229.0	6.7	1500
1990	3102	209.6	14.8	3300
1991	5579	374.4	14.9	5700
1992	5405	406.4	13.3	4800
1993	6640	409.9	16.2	6500
1994	8671	566.7	15.3	7500
1995	9593	685.2	14.0	9500
1996	10918	785.5	13.9	10200
1997	11182	765.9	14.6	10850
1998	13097	845.0	15.5	12700
1999	15155	1038.0	14.6	14900
2000	11711	944.4	12.4	11180
2001	11780	1061.3	11.1	11180
2002	12303	1060.6	11.6	11995
2003	12448	1163.4	10.7	12145
2004	12459	1618.1	7.7	9288
2005	5971	865.4	6.9	9745

In 2001 in area 3BC inshore fishers landed 294 t. (CPUE=11.7 kg/trap)
In 2002 in area 3BC inshore fishers landed 363 t. (CPUE= 6.9 kg/trap)
In 2003 in area 3BC inshore fishers landed 245 t. (CPUE= 9.0 kg/trap)
In 2004 in area 3BC inshore fishers landed 294 t. (CPUE= 6.2 kg/trap)
In 2005 in area 3BC inshore fishers landed 112 t. (CPUE= 5.3 kg/trap)

Table 11. Area 4 – Exploratory (3KX).

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1997	526	47.4	11.1	-
1998	910	77.8	11.7	-
1999	2735	333.5	8.2	-
2000	1215	209.5	5.8	-
2001	746	169.5	4.4	-
2002	531	106.2	5.0	-
2003	434	85.1	5.1	-
2004	477	85.2	5.6	-
2005	62	10.3	6.0	-

Division 3LNO

Table 12. Area 5A - Bonavista Bay.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1979	1586	172.4	9.2	-
1980	1905	192.4	9.9	-
1981	1376	172.0	8.0	-
1982	905	96.3	9.4	-
1983	1101	203.9	5.4	-
1984	1327	250.4	5.3	-
1985	728	251.0	2.9	-
1986	648	140.9	4.6	500
1987	602	84.8	7.1	700
1988	844	89.6	8.2	700
1989	959	75.2	8.5	900
1990	1072	126.1	8.5	900
1991	1102	106.0	10.4	1000
1992	1160	82.9	14.0	1000
1993	1431	102.2	14.0	1100
1994	1550	100.0	15.5	1100
1995	1106	80.1	13.8	1100
1996	1006	97.7	10.3	1000
1997	1111	148.1	7.5	1000
1998	1054	119.8	8.8	1000
1999	1142	142.8	8.0	1100
2000	973	126.4	7.7	983
2001	1094	143.9	7.6	1105
2002	1196	145.9	8.2	1200
2003	1252	129.1	9.7	1200
2004	1250	158.2	7.9	1200
2005	1257	119.7	10.5	1200

Table 13. Area 6A - Trinity Bay.

Year	Total landings (t)	Effort ('000's)	CPUE (kg/trap)	Quota (t)
1979	67	4.2	16.0	-
1980	59	4.6	12.9	-
1981	110	14.9	7.4	-
1982	65	10.7	6.1	-
1983	72	12.0	6.0	-
1984	17	2.5	6.9	-
1985	19	5.0	3.8	-
1986	18	3.5	5.1	200
1987	44	9.0	4.9	100
1988	98	22.8	4.3	275
1989	180	35.3	5.1	200
1990	232	36.3	6.4	200
1991	259	45.4	5.7	200
1992	177	21.6	8.2	200
1993	380	41.3	9.2	275
1994	490	47.6	10.3	400
1995	583	48.6	12.0	525
1996	689	84.0	8.2	700
1997	690	81.2	8.5	600
1998	644	66.4	9.7	600
1999	1029	128.6	8.0	1000
2000	863	125.1	6.9	855
2001	943	136.7	6.9	960
2002	1086	105.4	10.3	1095
2003	1191	152.7	7.8	1195
2004	1171	154.1	7.6	1095
2005	1132	161.7	7.0	1095

Table 14. Area 6B - Conception Bay.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1979	464	28.8	16.1	-
1980	869	56.4	15.4	-
1981	502	43.7	11.5	-
1982	694	60.9	11.4	-
1983	564	64.1	8.8	-
1984	333	52.0	6.4	-
1985	139	26.2	5.3	-
1986	193	32.7	5.9	200
1987	227	24.7	9.2	200
1988	499	45.0	11.1	275
1989	476	91.5	5.2	500
1990	314	55.1	5.7	500
1991	383	119.7	3.2	400
1992	304	49.8	6.1	300
1993	309	45.4	6.8	300
1994	416	32.8	12.7	300
1995	516	34.9	14.8	525
1996	595	47.6	12.5	650
1997	904	82.2	11.0	800
1998	899	68.6	13.1	850
1999	1182	90.2	13.1	1200
2000	1077	92.8	11.6	1020
2001	1252	106.1	11.8	1305
2002	1450	164.8	8.8	1450
2003	1435	251.8	5.7	1450
2004	1139	170.0	6.7	1100
2005	1078	171.1	6.3	1100

Table 15. Area 6C - Eastern Avalon.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1979	7632	436.1	17.5	-
1980	5065	242.3	20.9	-
1981	7607	484.5	15.7	-
1982	3368	253.2	13.3	-
1983	801	108.2	7.4	-
1984	312	55.7	5.6	-
1985	113	24.6	4.6	-
1986	144	26.7	5.4	-
1987	172	29.7	5.8	-
1988	751	72.2	10.4	600
1989	661	79.6	8.3	700
1990	850	116.4	7.3	1000
1991	1090	160.3	6.8	1000
1992	1078	114.7	9.4	1000
1993	1541	91.2	16.9	1200
1994	2024	111.2	18.2	1600
1995	2128	118.9	17.9	1937
1996	2432	153.0	15.9	1900
1997	3028	207.4	14.6	2600
1998	3447	214.1	16.1	2875
1999	1257	89.8	14.0	1250
2000	1098	74.2	14.8	1066
2001	1334	93.9	14.2	1325
2002	1595	111.5	14.3	1600
2003	1674	188.1	8.9	1665
2004	1605	203.2	7.9	1566
2005	1377	162.0	8.5	1445

Table 16. Area 8A - Southern Avalon (inside 50 miles).

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1980	292	13.8	21.1	-
1981	854	45.2	18.9	-
1982	732	49.8	14.7	-
1983	955	99.5	9.6	-
1984	1068	135.2	7.9	-
1985	627	87.1	7.2	-
1986	1267	117.3	10.8	-
1987	1129	92.5	12.2	-
1988	2347	223.5	10.5	2300
1989	1640	197.6	8.3	2400
1990	448	83.0	5.4	2000
1991	624	113.5	5.5	800
1992	456	45.1	10.1	200
1993	855	89.1	9.6	400
1994	819	53.9	15.2	400
1995	502	27.0	18.6	563
1996	464	25.4	18.3	700
1997	1174	65.6	17.9	1000
1998	949	53.3	17.8	1000
1999	616	27.4	22.5	600
2000	517	23.9	21.6	516
2001	692	29.2	23.7	690
2002	833	33.7	24.7	830
2003	865	40.2	21.5	864
2004	837	47.8	17.5	864
2005	825	48.2	17.1	755

Table 17. Area 8B - Southern Avalon (outside 50 miles and extending into 3NO)

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1990	568	126.2	4.5	2000
1991	481	37.6	12.8	600
1992	180	-	-	200
1993	196	25.8	7.6	200
1994	127	15.5	8.2	600
1995	26	1.8	14.8	200
1996	295	18.0	16.4	300
1997	948	54.8	17.3	1000
1998	949	46.1	20.6	1000
1999	1107	55.4	20.0	1300
2000	966	54.6	17.7	1105
2001	956	51.1	18.7	1110
2002	1012	53.0	19.1	1110
2003	587	29.2	20.1	680
2004	591	28.8	20.5	680
2005	593	28.9	20.5	680

In 2005 in 8BN (North of 46' 00N) fishers landed 807t (CPUE = 11.1 kg/trap)

Table 18. Area 8BX - Southern Avalon (exploratory).

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1999	905	57.3	15.8	-
2000	501	30.5	16.4	-
2001	860	49.4	17.4	-
2002	881 *(71)	58.3	15.1	1005
2003	1288 *(65)	77.1	16.7	1435
2004	1262 *(61)	90.1	14.0	1005
2005	1079 *(36)	106.8	10.1	1005

* (enhanced exp.) included in total

Table 19. Area 9A – St Mary's Bay.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1979	8	1.2	6.7	-
1980	-	-	-	-
1981	168	11.2	15.0	-
1982	506	48.2	10.5	-
1983	274	37.5	7.3	-
1984	264	35.2	7.5	-
1985	164	23.1	7.1	-
1986	102	21.3	4.8	-
1987	4	0.7	5.8	-
1988	266	36.9	7.2	200
1989	217	29.7	7.3	200
1990	267	28.7	9.3	200
1991	317	27.1	11.7	300
1992	306	27.6	11.1	300
1993	441	37.7	11.7	300
1994	484	29.0	16.7	400
1995	554	41.0	13.5	725
1996	569	64.7	8.8	725
1997	737	98.3	7.5	825
1998	946	111.3	8.5	900
1999	221	12.3	18.0	200
2000	194	10.7	18.2	193
2001	232	10.4	22.3	230
2002	364	15.6	23.3	365
2003	401	19.2	20.9	400
2004	420	23.3	18.0	430
2005	442	21.3	20.8	450

Table 20. Area NS – Near Shore. (extends into 3O)

Year	Total landing (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1979	569	57.5	9.9	-
1980	494	58.1	8.5	-
1981	178	24.7	7.2	-
1982	95	13.8	6.9	-
1983	107	20.2	5.3	-
1984	202	38.1	5.3	-
1985	113	27.6	4.1	-
1986	165	56.9	2.9	-
1987	140	36.8	3.8	-
1988	200	39.2	5.1	-
1989	251	43.3	5.8	300
1990	406	52.7	7.7	800
1991	876	82.6	10.6	1100
1992	1266	89.8	14.1	1200
1993	2028	137.0	14.8	1500
1994	2628	174.0	15.1	2100
1995	2505	158.5	15.8	2200
1996	2917	222.7	13.1	1950
1997	2975	247.9	12.0	2900
1998	3493	264.6	13.2	3350
1999	6394	432.0	14.8	6475
2000	5564	317.9	17.5	5500
2001	5529	335.1	16.5	5500
2002	5796	386.4	15.0	5500
2003	5784	448.4	12.9	5500
2004	5771	489.1	11.8	5500
2005	4821	351.9	13.7	5500

Table 21. Area MS – Mid-shore.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1981	1840	65.7	28.0	-
1982	4308	225.7	19.1	-
1983	2395	212.2	11.3	-
1984	828	88.8	9.3	-
1985	31	6.0	5.2	-
1986	-	-	-	-
1987	-	-	-	-
1988	298	39.7	7.5	-
1989	519	74.1	7.0	-
1990	701	86.5	8.1	500
1991	1371	137.1	10.0	1300
1992	1905	106.4	17.9	1500
1993	1994	97.3	20.5	1800
1994	3826	233.3	16.4	3000
1995	3961	214.1	18.5	4000
1996	4298	252.8	17.0	4250
1997	5121	301.2	17.0	5100
*1998	6725	369.5	18.2	6700
1999	5820	325.1	17.9	5100
2000	4922	253.7	19.4	4290
2001	4948	263.2	18.8	4335
2002	5488	306.6	17.9	4658
2003	5448	378.3	14.4	4658
2004	5564	456.1	12.2	5088
2005	5490	465.3	11.8	5088

In 1998 only, mid-shore and mid-shore extended were combined. Numbers shown in Area MS.

Table 22. Area MSX – Mid-shore extended.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap	Quota (t)
1995	539	27.5	19.6	500
1996	1237	69.1	17.9	1400
1997	1581	83.7	18.9	1600
1998	-	-	-	-
1999	3144	151.9	20.7	3100
2000	2730	128.8	21.2	2635
2001	2739	134.9	20.3	2635
2002	2690	121.7	22.1	2635
2003	3186	142.9	22.3	3125
2004	3190	142.4	22.4	3125
2005	3005	151.0	19.9	3125

Table 23. Area 3LX - Outside 170 and inside 200 n miles. (extends into 3NO)

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1996	502	26.0	19.3	600
1997	1407	69.7	20.2	600
1998	1491	66.9	22.3	1500
1999	2135	94.9	22.5	2100
2000	1789	79.9	22.4	1780
2001	1894	83.4	22.7	1785
2002	2358	94.7	24.9	2325
2003	2758	114.0	24.2	2695
2004	2733	126.5	21.6	2695
2005	2594	125.9	20.6	2695

Table 24. Area 3L 200 - (outside 200 n miles).

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1995	1370	62.6	21.9	1500
1996	1552	136.1	11.4	1500
1997	2509	160.8	15.6	1700
1998	1769	86.3	20.5	1700
1999	2769	146.5	18.9	2750
2000	2781	136.3	20.4	2675
2001	2719	132.0	20.6	2675
2002	2734	116.3	23.5	2675
2003	3006	139.8	21.5	2940
2004	2962	202.9	14.6	2940
2005	2620	222.0	11.8	2940

Table 25. Area 3N 200 - (outside 200 n miles).

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1998	155	17.6	8.8	-
1999	1696	80.0	21.2	1700
2000	1571	73.8	21.3	1650
2001	1602	77.0	20.8	1650
2002	1671	71.7	23.3	1650
2003	1812	87.5	20.7	1815
2004	1773	130.4	13.6	1815
2005	1678	128.1	13.1	1815

Table 26. Area 3NEX - (exploratory).

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1998	146	8.8	16.6	
1999	310	10.8	28.8	-
2000	243	8.3	29.3	-
2001	230	6.6	34.9	-
2002	225	9.6	23.4	-
2003	263	14.9	17.7	-
2004	235	14.2	16.6	-
2005	233	17.9	13.0	-

Table 27. Area 3O 200 - (outside 200 n miles).

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1999	232	10.9	21.2	-
2000	35	1.6	21.3	-
2001	35	1.7	20.8	-
2002	11	0.4	23.3	-
2003	21	2.0	10.4	-
2004	-	-	-	-
2005	-	-	-	-

Table 28. Area 3OEX - (exploratory).

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1999	77	3.9	19.5	-
2000	51	1.9	26.4	-
2001	53	2.1	25.0	-
2002	61	3.2	18.8	-
2003	64	3.0	21.0	-
2004	71	3.4	21.0	-
2005	59	2.4	24.8	-

Table 29. Area 8X - (Exploratory).

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1999	852	56.4	15.1	-
2000	530	36.3	14.6	-
2001	587	33.5	17.5	-
2002	108	6.4	17.0	-
2003	84	7.6	11.0	-
2004	72	4.8	15.0	-
2005	77	4.4	17.5	-

Table 30. Area 3NO – (Exploratory).

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1999	1646	81.9	20.1	-
2000	452	16.0	28.3	-
2001	453	15.3	29.6	-
2002	462	16.5	28.0	-
2003	517	25.6	20.2	-
2004	412	24.7	16.7	-
2005	471	21.2	22.2	-

Division 3Ps

Table 31. Area 10A - Placentia Bay.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1983	43	3.1	13.9	-
1984	175	18.6	9.4	-
1985	385	44.8	8.6	-
1986	930	91.2	10.2	600
1987	596	198.7	3.0	600
1988	856	231.4	3.7	600
1989	529	112.6	4.7	600
1990	596	124.2	4.8	600
1991	309	65.7	4.7	600
1992	170	14.4	11.8	400
1993	603	53.8	11.2	400
1994	895	57.7	15.5	400
1995	700	35.4	19.8	625
1996	1039	55.3	18.8	1000
1997	1591	103.3	15.4	1500
1998	2040	127.5	16.0	1700
1999	2652	165.8	16.0	2642
2000	2635	170.0	15.5	2400
2001	2585	184.6	14.0	2400
2002	2671	264.5	10.1	2400
2003	2198	323.2	6.8	2040
2004	1189	304.9	3.9	1630
2005	626	178.9	3.5	1300

Table 32. Area 10BCD - between 45°35'N and 46°30'N.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1994	289	14.8	19.5	250
1995	818	37.2	22.0	800
1996	1506	76.4	19.7	1500
1997	2135	100.2	21.3	2000
1998	3226	133.3	24.2	3200
1999	3538	138.2	25.6	3398
2000	3599	164.3	21.9	3700
2001	3689	210.8	17.5	3700
2002	3696	262.1	14.1	3700
2003	3169	340.8	9.3	3145
2004	2747	319.4	8.6	2515
2005	2071	328.7	6.3	2550

In 2003 exploratory fishing in 10X resulted in a catch of 189 t. (CPUE =6.4 kg/trap)
In 2004 exploratory fishing in 10X resulted in a catch of 419 t. (CPUE =7.0 kg/trap)
In 2005 exploratory fishing in 10X resulted in a catch of 274 t. (CPUE =6.2 kg/trap)

Table 33. Area 11E – Fortune Bay

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1991	3	-	-	100
1992	26	-	-	100
1993	101	9.3	10.9	100
1994	406	36.6	11.1	200
1995	325	-	-	425
1996	310	29.0	10.7	350
1997	691	93.4	7.4	700
1998	652	69.4	9.4	600
1999	930	169.1	5.5	900
2000	822	178.7	4.6	900
2001	776	136.1	5.7	800
2002	529	151.1	3.5	800
2003	157	52.3	3.0	480
2004	112	24.3	4.6	-
2005	77	17.9	4.3	-

Table 34. Area 11S – South of 46 30'N and east of 56 31 5'W.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1994	289	13.4	21.5	250
1995	-	-	-	-
1996	186	10.9	17.0	200
1997	272	14.1	19.3	200
1998	517	21.2	23.7	500
1999	664	29.3	22.7	700
2000	682	40.1	17.0	700
2001	562	51.6	10.9	700
2002	512	75.3	6.8	700
2003	318	64.9	4.9	420
2004	215	29.1	7.4	250
2005	119	21.6	5.5	250

Table 35. Area 11W – Fortune Bay (west of Western Head)

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1995	10	4.8	2.1	-
1996	-	-	-	-
1997	61	15.3	4.0	-
1998	180	30.0	6.0	-
1999	21	5.7	3.7	-
2000	49	10.0	4.9	-
2001	78	10.0	7.8	-
2002	83	22.4	3.7	-
2003	13	6.5	2.0	-
2004	1	0.5	2.2	-
2005	-	-	-	-

Table 36. Area 11SX – South of 46 30'N and west of 56 31.5'W.

Year	Total landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1996	186	28.2	6.6	200
1997	272	20.1	13.5	200
1998	502	-	-	500
1999	104	8.0	13.0	700
2000	132	9.9	13.4	700
2001	150	13.5	11.1	700
2002	145	20.7	7.0	700
2003	73	16.6	4.4	420
2004	38	5.9	6.4	-
2005	4	1.1	3.7	-

Division 4R – 3Pn

Table 37. Area Z13 - North of Table Point.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1994	334	60.7	5.5	-
1995	198	28.7	6.9	-
1996	93	-	-	-
1997	187	-	-	-
1998	118	31.1	3.8	-
1999	313	48.2	6.5	-
2000	173	25.1	6.9	-
2001	212	47.1	4.5	-
2002	168	40.0	4.2	-
2003	*15	3.4	4.4	-
2004	*34	6.0	5.7	-
2005	*3	0.6	5.3	-

In 2002 a scientific survey resulted in landings of 5 t.
* Scientific survey

Table 38. Area Z12 – South of Table Point (Outside 8 miles).

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1994	157	41.3	3.8	-
1995	205	43.6	4.7	225
1996	454	126.1	3.6	645
1997	314	101.3	3.1	645
1998	452	122.2	3.7	645
1999	627	145.8	4.3	650
2000	686	142.9	4.8	645
2001	649	147.5	4.4	645
2002	667	123.5	5.4	675
2003	609	164.6	3.7	845
2004	584	188.4	3.1	838
2005	348	108.8	3.2	845

In 2000 a scientific survey resulted in landings of 89 t.
In 2001 a scientific survey resulted in landings of 110 t.
In 2002 a scientific survey resulted in landings of 132 t.
In 2003 a scientific survey resulted in landings of 7 t.
In 2004 a scientific survey resulted in landings of 1 t.

Table 39. Area BOI - Bay of Islands.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1994	106	16.8	6.3	110
1995	110	15.5	7.1	110
1996	57	13.0	4.4	80
1997	29	11.6	2.5	80
1998	43	14.3	3.0	80
1999	82	17.8	4.6	80
2000	83	16.0	5.2	80
2001	81	17.2	4.7	80
2002	83	8.5	9.8	80
2003	81	8.2	9.9	80
2004	80	6.5	12.3	80
2005	80	8.2	9.7	80

Table 40. Area BSG - Bay St. George.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1994	58	10.5	5.5	65
1995	64	5.7	11.3	65
1996	45	6.1	7.4	50
1997	44	6.4	6.9	45
1998	48	7.4	6.5	45
1999	51	5.3	9.7	50
2000	35	7.0	5.0	50
2001	36	3.2	11.1	40
2002	36	3.2	11.3	35
2003	45	5.6	8.0	30
2004	42	8.1	5.2	30
2005	5	-	-	30

Table 41. Area 12A – Lapoile Bay.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1995	13	3.3	4.0	-
1996	8	3.1	2.6	39
1997	-	-	-	40
1998	8	1.5	5.2	10
1999	12	2.2	5.4	15
2000	15	4.2	3.6	20
2001	6	-	-	15
2002	10	6.7	1.5	18
2003	3.5	3.6	1.4	18
2004	1	-	-	18
2005	1	-	-	18

Table 42. Area 12B – Cape Ray to Johnsons Cove.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1995	2	0.9	2.2	-
1996	4	0.9	4.4	20
1997	7	0.7	9.4	20
1998	6	0.5	13.2	20
1999	20	2.1	9.6	20
2000	21	4.8	4.4	20
2001	20	-	-	20
2002	27	3.3	8.1	26
2003	33	2.8	12.0	29
2004	23	7.9	2.9	32
2005	2	-	-	29

Table 43. Area 12C – Johnson's Cove to Cape St. George.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1995	24	2.7	9.0	-
1996	63	9.8	6.4	66
1997	128	24.6	5.2	170
1998	146	22.8	6.4	170
1999	210	26.3	8.0	175
2000	199	36.2	5.5	207
2001	209	15.1	13.8	185
2002	253	17.2	14.7	248
2003	284	32.3	8.8	280
2004	242	39.7	6.1	287
2005	61	20.3	3.0	280

Table 44. Area 12D – Cape St. George to Bear Head.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1995	25	4.0	6.2	-
1996	62	10.5	5.9	69
1997	31	4.8	6.5	70
1998	53	8.0	6.6	70
1999	73	7.7	9.5	70
2000	74	9.6	7.7	81
2001	96	5.2	18.3	85
2002	119	8.3	14.3	119
2003	147	13.7	10.7	136
2004	116	25.2	4.6	146
2005	30	8.3	3.6	136

Table 45. Area 12E – Bear Head to Cape St. Gregory.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1995	50	5.5	9.1	-
1996	31	10.3	3.0	81
1997	16	4.4	3.6	80
1998	3	0.6	4.8	60
1999	19	4.1	4.6	60
2000	51	23.2	2.2	60
2001	41	8.9	4.6	60
2002	66	5.1	13.0	67
2003	93	9.5	9.8	91
2004	74	7.8	9.5	70
2005	66	7.5	8.8	91

Table 46. Area 12F – Inside Bay of Islands.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1996	24	7.5	3.2	30
1997	5	2.6	1.9	30
1998	4	1.7	2.3	10
1999	9	1.7	5.3	10
2000	11	1.3	8.2	10
2001	27	6.9	3.9	30
2002	36	2.7	13.3	36
2003	46	4.4	10.4	45
2004	68	5.0	13.6	68
2005	72	7.1	10.1	45

Table 47. Area 12G – Cape St. Gregory to Broom Point.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1995	59	4.7	12.5	-
1996	140	14.0	10.0	140
1997	158	17.0	9.3	140
1998	143	23.4	6.1	140
1999	125	25.0	5.0	140
2000	130	25.0	5.2	140
2001	139	30.2	4.6	140
2002	152	22.7	6.7	154
2003	172	11.2	15.3	171
2004	170	15.3	11.1	170
2005	170	17.9	9.5	171

Table 48. Area 12H Broom Point to Table Point.

Year	Total Landings (t)	Total effort ('000's)	CPUE (kg/trap)	Quota (t)
1995	27	8.4	3.2	-
1996	36	13.8	2.6	69
1997	48	11.7	4.1	70
1998	40	12.5	3.2	60
1999	75	15.0	5.0	65
2000	76	12.5	6.1	78
2001	49	-	-	80
2002	96	22.9	4.2	111
2003	28	20.0	1.4	110
2004	26	20.0	1.3	113
2005	22	11.0	2.0	110

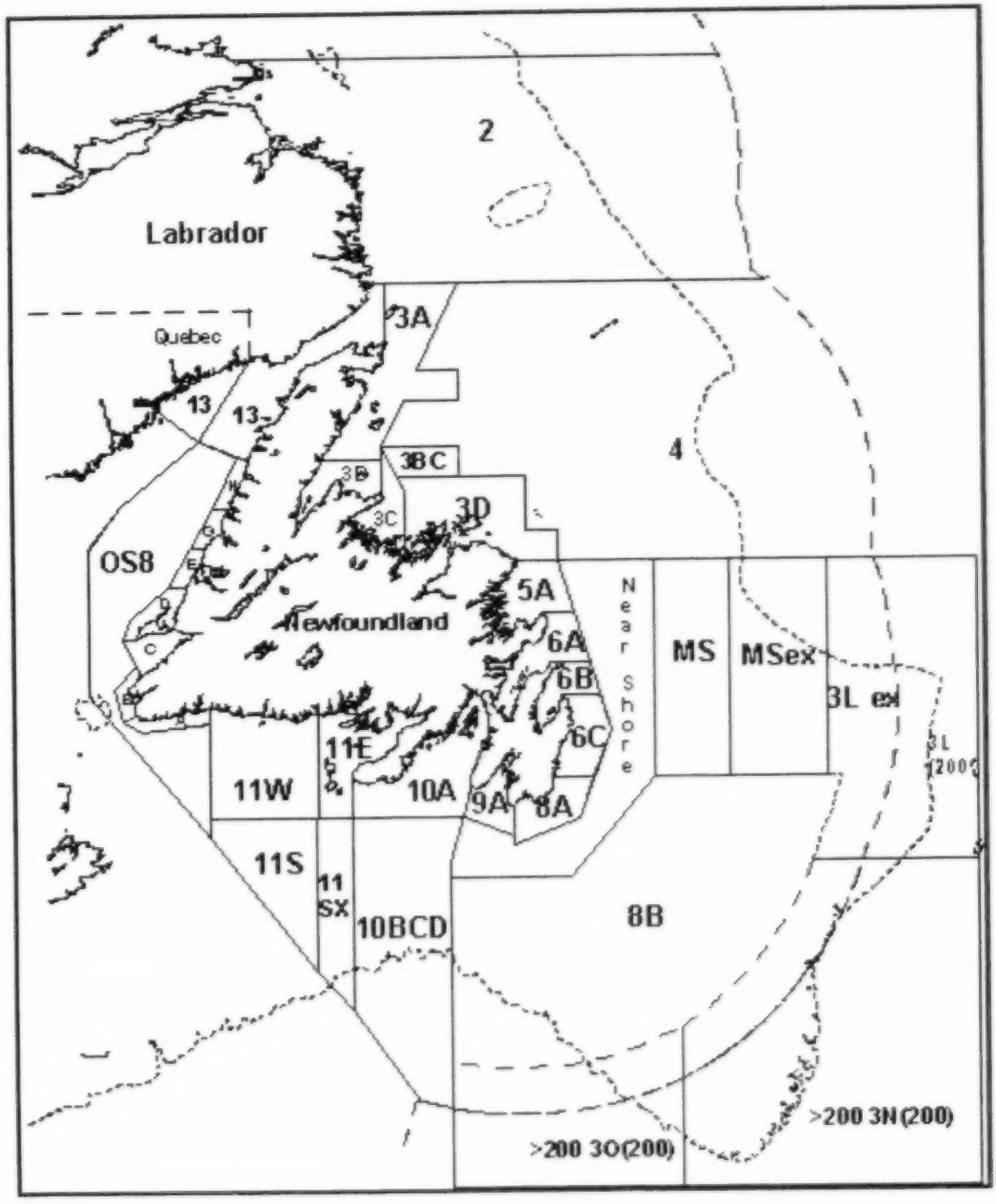

Figure 1. Newfoundland and Labrador Snow Crab Management Areas.

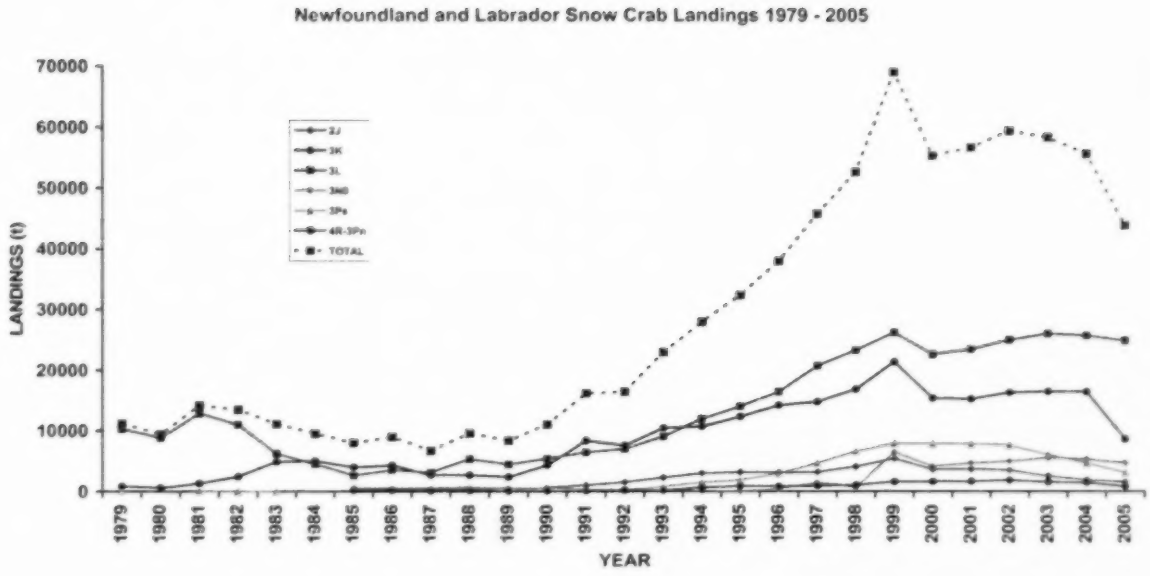

Figure 2. Newfoundland and Labrador snow crab landings by NAFO Division 1979-2005.

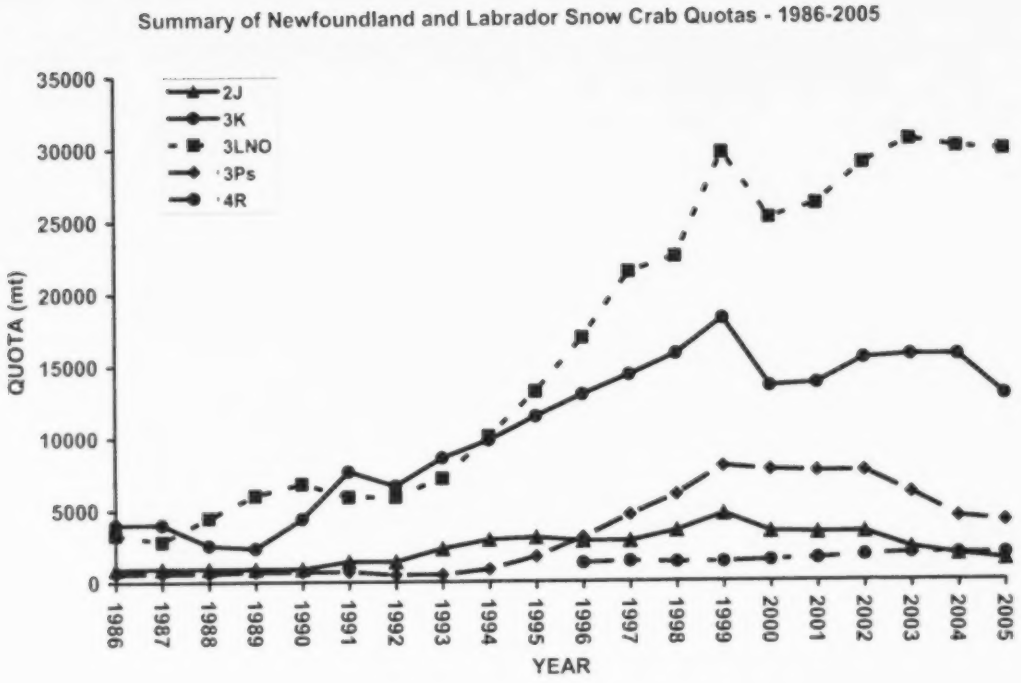

Figure 3. Newfoundland and Labrador NAFO Division snow crab quotas –1986-2005.